AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Currently amended) A recombinant DNA encoding a protein ~~defined in the following (A) or (B):~~

~~(A) a protein~~ which has at least an amino acid sequence comprising amino acids 23 to 425 of SEQ ID NO: 16~~;~~

~~(B) a protein which has a substitution, deletion, insertion or addition of 1 to 20 amino acid residues in the protein which has at least the amino acid sequence comprising amino acids 23 to 425 of SEQ ID NO: 16~~.

3. (Currently amended) The recombinant DNA according to claim 2, wherein the DNA ~~is defined in the following (a) or (b):~~

~~(a) a DNA comprising~~comprises a nucleotide sequence consisting of nucleotides 187 to 1398 of SEQ ID NO: 15~~;~~

~~(b) a DNA which is hybridizable with the nucleotide sequence consisting of nucleotides 187 to 1398 of SEQ ID NO: 15 under stringent conditions~~.

4. (Previously presented) The recombinant DNA according to claim 3, further comprising a nucleotide sequence consisting of nucleotides 121 to 187 of SEQ ID NO: 15.

5. (Previously presented) A recombinant vector comprising the DNA according to claim 2.

6. (Currently amended) ~~A transformant~~An isolated host cell transformed with the DNA according to claim 2.

7. (Currently amended) A method of producing a glucose dehydrogenase β subunit, comprising culturing the ~~transformant~~ cell according to claim 6 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.

8-31. (Cancelled)

32. (New) A recombinant vector comprising the DNA according to claim 3.

33. (New) A recombinant vector comprising the DNA according to claim 4.

34. (New) An isolated host cell transformed with the DNA according to claim 3.

35. (New) An isolated host cell transformed with the DNA according to claim 4.

36. (New) An isolated host cell transformed with the recombinant vector according to claim 5.

37. (New) An isolated host cell transformed with the recombinant vector according to claim 32.

38. (New) An isolated host cell transformed with the recombinant vector according to claim 33.

39. (New) A method of producing a glucose dehydrogenase β subunit comprising culturing the cell according to claim 34 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.

40. (New) A method of producing a glucose dehydrogenase β subunit, comprising culturing the cell according to claim 35 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.

41. (New) A method of producing a glucose dehydrogenase β subunit, comprising culturing the cell according to claim 36 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.

42. (New) A method of producing a glucose dehydrogenase β subunit, comprising culturing the cell according to claim 37 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.

43. (New) A method of producing a glucose dehydrogenase β subunit, comprising culturing the cell according to claim 38 to produce a glucose dehydrogenase β subunit as an expression produce of the DNA, and collecting the produced β subunit.

44. (New) A recombinant DNA which is hybridizable with a nucleotide sequence consisting of nucleotides 187 to 1398 of SEQ ID NO: 15 under stringent conditions comprising 1xSSC, 0.1% SDS, and 60 °C, which has 90% or more homology to SEQ ID NO: 15, and which encodes a protein having a substitution, deletion, insertion or addition of 1 to 5 amino acid residues in the protein which has at least the amino acid sequence comprising amino acids 23 to 425 of SEQ ID NO: 16.

45. (New) The DNA according to claim 44, further comprising a nucleotide sequence consisting of nucleotides 121 to 187 of SEQ ID NO: 15.

46. (New) A recombinant vector comprising the DNA according to claim 44.

47. (New) A recombinant vector comprising the DNA according to claim 45.

48. (New) An isolated host cell transformed with the DNA according to claim 44.

49. (New) An isolated host cell transformed with the DNA according to claim 45.

50. (New) An isolated host cell transformed with the recombinant vector according to claim 46.

51. (New) An isolated host cell transformed with the recombinant vector according to claim 47.

52. (New) A method of producing a glucose dehydrogenase β subunit, comprising culturing the cell according to claim 48 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.

53. (New) A method of producing a glucose dehydrogenase β subunit, comprising culturing the cell according to claim 49 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.

54. (New) A method of producing a glucose dehydrogenase β subunit, comprising culturing the cell according to claim 50 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.

55. (New) A method of producing a glucose dehydrogenase β subunit, comprising culturing the cell according to claim 51 to produce a glucose dehydrogenase β subunit as an expression product of the DNA, and collecting the produced β subunit.